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611102

6. AUTHORS

5d. PROJECT NUMBER

5e. TASK NUMBER

5f. WORK UNIT NUMBER

7. PERFORMING ORGANIZATION NAMES AND ADDRESSES
Gordon Research Conferences, Inc.
512 Liberty Lane

West Kingston, RI 02892 -1502

8. PERFORMING ORGANIZATION REPORT NUMBER

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS (ES)
U.S. Army Research Office
P.O. Box 12211
Research Triangle Park, NC 27709-2211

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71318-CH-CF.1

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14. ABSTRACT

15. SUBJECT TERMS

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a. REPORT	b. ABSTRACT	c. THIS PAGE			Kimberly Prather
UU	UU	UU	UU		19b. TELEPHONE NUMBER 858-822-5312

RPPR Final Report
as of 17-Nov-2017

Agency Code:

Proposal Number: 71318CHCF **Agreement Number: W911NF-17-1-0289**
INVESTIGATOR(S):

Name: Ph.D Kimberly A. Prather
Email: kprather@ucsd.edu
Phone Number: 8588225312
Principal: Y

Organization: **Gordon Research Conferences, Inc.**
Address: 512 Liberty Lane, West Kingston, RI 028921502
Country: USA
DUNS Number: 075712877 EIN: 050300482
Report Date: 28-Feb-2018 Date Received: 13-Nov-2017
Final Report for Period Beginning 01-Jun-2017 and Ending 30-Nov-2017
Title: 2017 Atmospheric Chemistry Gordon Research Conference
Begin Performance Period: 01-Jun-2017 **End Performance Period:** 30-Nov-2017
Report Term: 0-Other
Submitted By: Nancy Ryan Gray Email: nih@grc.org
Phone: (401) 360-1505

STEM Degrees: 0 **STEM Participants:** 0

Major Goals: The 2017 meeting included a broad range of topics and new developments in the field of atmospheric chemistry. Changes to the atmosphere are occurring at an unprecedented rate due to a rapidly growing global population and thus the field of atmospheric chemistry faces new challenges. This conference provided a forum for an open and provocative discussion of major gaps in the field with a focus on how we can improve our understanding and predictive ability of the atmosphere through integration of fundamental laboratory studies with field observations and models. This meeting specifically focused on aerosol-cloud interactions, ice nucleation, biosphere-atmosphere feedbacks, integration of measurements and models, indoor air quality, aerobiology, and fundamental gas and heterogeneous reaction processes.

Accomplishments: The 2017 meeting included a broad range of topics and new developments in the field of atmospheric chemistry. Changes to the atmosphere are occurring at an unprecedented rate due to a rapidly growing global population and thus the field of atmospheric chemistry faces new challenges. This conference provided a forum for an open and provocative discussion of major gaps in the field with a focus on how we can improve our understanding and predictive ability of the atmosphere through integration of fundamental laboratory studies with field observations and models. This meeting specifically focused on aerosol-cloud interactions, ice nucleation, biosphere-atmosphere feedbacks, integration of measurements and models, indoor air quality, aerobiology, and fundamental gas and heterogeneous reaction processes.

Training Opportunities: Nothing to Report

Results Dissemination: Conference Program

Honors and Awards: Nothing to Report

Protocol Activity Status:

Technology Transfer: Nothing to Report

RPPR Final Report
as of 17-Nov-2017

GORDON RESEARCH CONFERENCES

FINAL PROGRESS REPORT
Army Research Office
Atmospheric Chemistry GRC

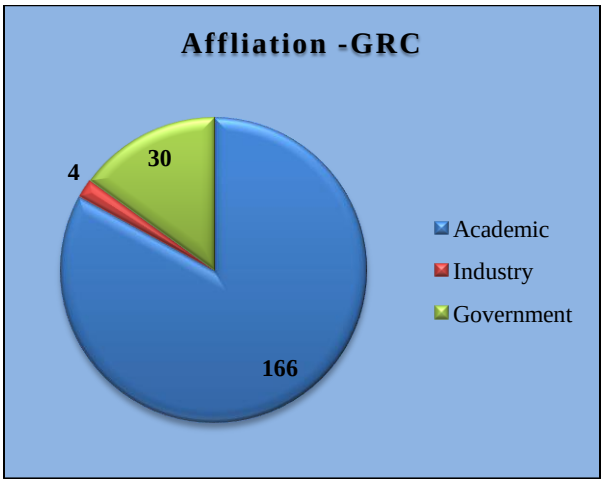
Grant Number W911NF-17-1-0289
July 30-August 4, 2017

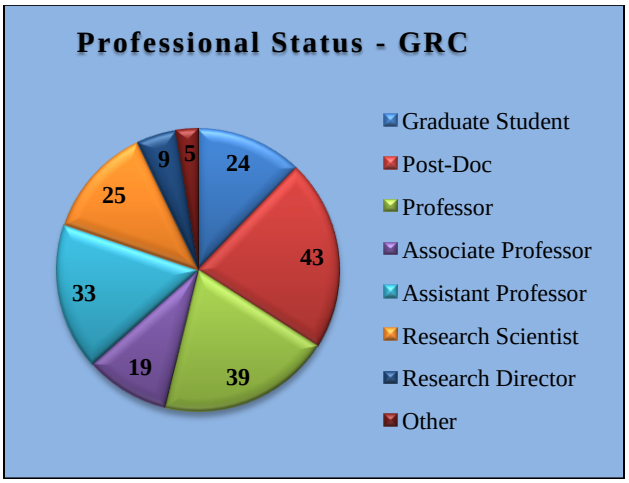
Operational Summary

The Gordon Research Conference (GRC) Atmospheric Chemistry was held at Sunday River in Newry, Maine from July 30-August 4, 2017. The meeting covered a variety of scientific topics and the content presented was highly rated by participants.

Conference Participants

The Conference was well-attended with 200 participants. Scientists from academia represented 83% of the participants while attendees from government accounted for 15% and those from industry totaled 2%. The meeting also attracted a strong mix of young investigators and senior scientists. Students and post-docs accounted for 34% of all attendees. Approximately 42% of the participants at the 2017 meeting were women.





Conference Program

The 2017 meeting included a broad range of topics and new developments in the field of atmospheric chemistry. Changes to the atmosphere are occurring at an unprecedented rate due to a rapidly growing global population and thus the field of atmospheric chemistry faces new challenges. This conference provided a forum for an open and provocative discussion of major gaps in the field with a focus on how we can improve our understanding and predictive ability of the atmosphere through integration of fundamental laboratory studies with field observations and models. This meeting specifically focused on aerosol-cloud interactions, ice nucleation, biosphere-atmosphere feedbacks, integration of measurements and models, indoor air quality, aerobiology, and fundamental gas and heterogeneous reaction processes.

Conference Budget

Funding provided by the ARO supported partial registration for 16 postdocs, 6 graduate students, 8 professors, 4 associate professors and 1 research scientist at the GRC.

Conference Feedback

Participants had an opportunity to provide feedback at the end of the Conference. The feedback collected from the meeting was extremely positive. Evaluations included numerous positive remarks regarding the amount of women who were apart of the program, the variety of the posters presented, as well as how helpful the informal sessions were.

GRC would like to thank the ARO for its continued support of the meetings. The contributions received have been critical to the success of the conferences and are having a measurable impact in advancing the frontiers of science worldwide.

Dr. Kimberly Prather GRC Chair
University of California, San Diego

Dr. Nancy Ryan Gray
President and Chief Executive Officer
Gordon Research Conferences

Atmospheric Chemistry

Gordon Research Conference

Addressing the Complexity of Our Atmosphere Through Integration Across Scales

July 30 - August 4, 2017

Grand Summit Hotel at Sunday River

Newry, ME

Chair: **Kim Prather**

Vice Chairs: **Neil M. Donahue** & **Ronald C. Cohen**

Contributors

Meeting Program

Sunday	
2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 7:40 pm	Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm	**Keynote Session: Atmospheric Chemistry Challenges of the 21st Century**
	Discussion Leader: **Colette Heald** (Massachusetts Institute of Technology, USA)

7:40 pm - 7:45 pm	Opening Remarks
7:45 pm - 8:00 pm	Introduction by Discussion Leader
8:00 pm - 8:30 pm	**John Seinfeld** (California Institute of Technology, USA) "Secondary Organic Aerosol Production in Laboratory Chambers"
8:30 pm - 8:45 pm	Discussion
8:45 pm - 9:15 pm	**A.R. Ravishankara** (Colorado State University, USA) "Role of Atmospheric Chemistry in the Earth's Environment"
9:15 pm - 9:30 pm	Discussion

Monday

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	**Mother Nature's Control of Atmospheric Chemistry and Climate**
	Discussion Leader: **Susannah Burrows** (Pacific Northwest National Laboratory, USA)
9:00 am - 9:15 am	Introduction by Discussion Leader
9:15 am - 9:45 am	**Janine Frohlich** (Max Planck Institute for Chemistry, Germany) "Characterization and Quantification of Biological Ice Nuclei"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	**Jonathan Raff** (Indiana University, USA) "Biogeochemical Controls on the Sources and Fate of Reactive Oxides of Nitrogen in the Atmosphere"
10:30 am - 10:45 am	Discussion
10:45 am - 11:05 am	Coffee Break
11:05 am - 11:35 am	**Allison Steiner** (University of Michigan, USA) "The Atmospheric Life Cycle of Pollen: From Plant to Grain to Particle"
11:35 am - 11:50 am	Discussion
11:50 am - 12:00 pm	General Discussion
12:00 pm - 12:30 pm	Poster Previews
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm	Dinner
7:30 pm - 9:30 pm	**Challenges in Indoor Air Chemistry Measurements**

	Discussion Leader: **Richard Corsi** (University of Texas at Austin, USA)
7:30 pm - 7:45 pm	Introduction by Discussion Leader
7:45 pm - 8:15 pm	**Nicola Carslaw** (University of York, United Kingdom) "How Important Is Indoor Air Chemistry? Insights from a Detailed Chemical Model"
8:15 pm - 8:30 pm	Discussion
8:30 pm - 9:00 pm	**William Nazaroff** (University of California, Berkeley, USA) "CSI Oakland: Probing the Depths of Residential Indoor Air Chemistry"
9:00 pm - 9:15 pm	Discussion
9:15 pm - 9:30 pm	General Discussion
Tuesday	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	**Chemistry in the Remote Atmosphere**
	Discussion Leader: **Jennifer Murphy** (University of Toronto, Canada)
9:00 am - 9:15 am	Introduction by Discussion Leader
9:15 am - 9:45 am	**Jonathan Abbatt** (University of Toronto, Canada) "Aerosol in the Arctic Summertime: Particle Formation and Growth, Clouds, and Melting Sea Ice"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	**Jenny Fisher** (University of Wollongong, Australia) "Fates of Volatile Organic Compounds in the Presence of (Some) NOx: Implications for the Remote Atmosphere"
10:30 am - 10:45 am	Discussion
10:45 am - 11:05 am	Coffee Break
11:05 am - 11:35 am	**Andi Andreae** (Max Planck Institute for Chemistry, Germany) "Where Is the Source of New Particles in the Pristine Atmosphere?"
11:35 am - 11:50 am	Discussion
11:50 am - 12:00 pm	General Discussion
12:00 pm - 12:30 pm	Poster Previews
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session

6:00 pm	Dinner
7:30 pm - 9:30 pm	**Impact of Interfacial Composition on Heterogeneous Chemistry and Ice Nucleation**
	Discussion Leader: **Ryan Sullivan** (Carnegie Mellon University, USA)
7:30 pm - 7:45 pm	Introduction by Discussion Leader
7:45 pm - 8:15 pm	**Gilbert Nathanson** (University of Wisconsin-Madison, USA) "Exploring the Dynamics of Atmospheric Reactions at the Surface of Sea Spray Mimics"
8:15 pm - 8:30 pm	Discussion
8:30 pm - 9:00 pm	**Valeria Molinero** (University of Utah, USA) "Ice Nucleation by Organic and Biological Molecules: A Molecular Perspective"
9:00 pm - 9:15 pm	Discussion
9:15 pm - 9:30 pm	General Discussion

Wednesday

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	**Integration of Measurements and Models: Impacts of Aerosols on Clouds, Climate, and Weather**
	Discussion Leader: **Douglas Worsnop** (Aerodyne Research, Inc., USA)
9:00 am - 9:15 am	Introduction by Discussion Leader
9:15 am - 9:45 am	**Ilona Riipinen** (Stockholm University, Sweden) "What Do We Need to Know About the Molecular Composition of Organic Aerosol to Capture Its Interaction with Clouds?"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	**Ruby Leung** (Pacific Northwest National Laboratory, USA) "Aerosol Source Impacts on Clouds and Precipitation"
10:30 am - 10:45 am	Discussion
10:45 am - 11:05 am	Coffee Break
11:05 am - 11:35 am	**Daniel Rosenfeld** (Hebrew University of Jerusalem, Israel) "Clouds Obscuring Aerosol Retrievals? Using Clouds for Revealing Aerosol Emission Sources and Climatic Impacts"
11:35 am - 11:50 am	Discussion
11:50 am - 12:00 pm	General Discussion

12:00 pm - 12:30 pm	Poster Previews
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session
6:00 pm	Dinner
7:00 pm - 7:30 pm	Business Meeting
	Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair
7:30 pm - 9:30 pm	**Challenges in Measuring and Modeling of Atmospheric Composition with Implications for Understanding Air Quality and Climate**
	Discussion Leader: **Randall Martin** (Dalhousie University, Canada)
7:30 pm - 7:45 pm	Introduction by Discussion Leader
7:45 pm - 8:15 pm	**Ulrike Lohmann** (ETH Zurich, Switzerland) "Why Does the Influence of Aerosols on Clouds and Climate Remain Uncertain?"
8:15 pm - 8:30 pm	Discussion
8:30 pm - 9:00 pm	**Ilan Koren** (Weizmann Institute of Science, Israel) "Warm Convective Cloud Fields as a (Toy) Model for Challenges and Complexities in Cloud-Climate Research"
9:00 pm - 9:15 pm	Discussion
9:15 pm - 9:30 pm	General Discussion
Thursday	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	**Fundamental Atmospheric Chemistry: Gas and Multiphase Processes**
	Discussion Leader: **Annmarie Carlton** (University of California, Irvine, USA)
9:00 am - 9:15 am	Introduction by Discussion Leader
9:15 am - 9:45 am	**Craig Taatjes** (Sandia National Laboratories, USA) "Characterization of Intermediates in Atmospherically Relevant Hydrocarbon Oxidation Processes"
9:45 am - 10:00 am	Discussion
10:00 am - 10:30 am	**Cari Dutcher** (University of Minnesota, USA) "Exploring Aerosol Water Uptake, Surface Tension, Viscosity, and Phase Using Microfluidic Contractions, Wells, and Traps"

10:30 am - 10:45 am	Discussion
10:45 am - 11:05 am	Coffee Break
11:05 am - 11:35 am	**Barbara Turpin** (University of North Carolina at Chapel Hill, USA) "Progress and Prospects: The Quest to Understand the Impacts of Multiphase Chemistry on a Wet Planet"
11:35 am - 11:50 am	Discussion
11:50 am - 12:00 pm	General Discussion
12:00 pm - 12:30 pm	Poster Previews
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 5:30 pm	Poster Session
5:30 pm - 7:30 pm	**Chemistry Across Scales: From Nanometers to Megameters** Discussion Leader: **Renyi Zhang** (Texas A&M University, USA)
5:30 pm - 5:45 pm	Introduction by Discussion Leader
5:45 pm - 6:15 pm	**Steven Brown** (Earth System Research Laboratory, NOAA, USA) "Megacities, Forests, and Fires: Chemical Complexity Across Widely Different Atmospheres"
6:15 pm - 6:30 pm	Discussion
6:30 pm - 7:00 pm	**Nicole Riemer** (University of Illinois at Urbana-Champaign, USA) "Aerosol Mixing State: Metrics, Measurements, and Modeling"
7:00 pm - 7:15 pm	Discussion
7:15 pm - 7:30 pm	General Discussion
8:00 pm	Dinner
Friday	
7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Atmospheric Chemistry (2017)

Name	Organization	Participation
Abbatt, Jonathan	University of Toronto	Speaker
Al-Naiema, Ibrahim M	University of Iowa	Poster Presenter
Alexander, Becky	University of Washington	Poster Presenter
Alpert, Peter A	Paul Scherrer Institut	Poster Presenter
Altaratz, Orit	The Weizmann Institute of Science	Poster Presenter
Andreae, Andi	Max Planck Institute for Chemistry	Speaker
Asher, Elizabeth C	National Center for Atmospheric Research	Poster Presenter
Ault, Andrew P	University of Michigan	Poster Presenter
Bahreini, Roya	U. of California- Riverside	Poster Presenter
Barreira, Luis	University of Helsinki	Poster Presenter
Barsanti, Kelley C	University of California Riverside	Poster Presenter
Bates, Kelvin H	Caltech	Poster Presenter
Berkemeier, Thomas	Georgia Institute of Technology	Poster Presenter
Bertram, Timothy H	UW Madison, Department of Chemistry	Poster Presenter
Boering, Kristie A	University of California, Berkeley	Poster Presenter
Boose, Yvonne	Karlsruhe Institute of Technology	Poster Presenter
Borduas, Nadine	ETH Zurich	Poster Presenter
Boyer, Hallie C	University of Minnesota	Poster Presenter
Brown, Steven S	Earth System Research Laboratory, NOAA	Speaker
Burrows, Susannah	Pacific Northwest National Laboratory	Discussion Leader
Campbell, Steven J	University of Cambridge	Poster Presenter
Cappa, Christopher D	University of California, Davis	Poster Presenter
Carlton, Annmarie G.	University of California, Irvine	Discussion Leader
Carslaw, Nicola	University of York	Speaker
Chai, Jiajue	Brown University	Poster Presenter
Chan, Arthur	University of Toronto	Poster Presenter
Chen, Qi	Peking University	Poster Presenter
China, Swarup	Pacific Northwest National Laboratory	Poster Presenter
Claiborn, Candis S	Washington State University	Attendee
Cohen, Ronald C	UC Berkeley	Vice Chair
Collins, Douglas B	University of Toronto	Poster Presenter
Corsi, Richard	University of Texas at Austin	Discussion Leader
Cropper, Paul M	Desert Research Institute	Poster Presenter
Crosbie, Ewan	NASA - Langley Research Center	Poster Presenter
De Gouw, Joost	Cooperative Institute for Research in Environmental Sciences	Poster Presenter
De Haan, David O	University of San Diego	Poster Presenter
Decarlo, Peter F	Drexel University	Poster Presenter
Dibble, Theodore	SUNY-Environmental Science and Forestry	Poster Presenter
Donahue, Neil M	Carnegie Mellon University	Vice Chair

Doughty, David C	US Army Research Laboratory	Poster Presenter
Dubowski, Yael	Technion - Israel Institute of Technology	Poster Presenter
Dutcher, Cari	University of Minnesota	Speaker
Edgerton, Sylvia A	National Science Foundation	Attendee
Emerson, Ethan W	Colorado State University	Poster Presenter
Ervens, Barbara	CIRES, CU Boulder	Poster Presenter
Eugene, Alexis J	University of Kentucky	Poster Presenter
Fahey, David W	NOAA Earth System Research Laboratory	Attendee
Farmer, Delphine K	Colorado State University	Poster Presenter
Faust, Jennifer A	University of Toronto	Poster Presenter
Fierce, Laura M	Brookhaven National Laboratory	Poster Presenter
Fisher, Jenny A	University of Wollongong	Speaker
Franchin, Alessandro	CIRES/NOAA	Poster Presenter
Freedman, Miriam	Pennsylvania State University	Poster Presenter
Frohlich, Janine	Max Planck Institute for Chemistry	Speaker
Frost, Gregory J	NOAA ESRL Chemical Sciences Division (CSD)	Poster Presenter
Gallimore, Peter J	University of Cambridge	Poster Presenter
Galloway, Melissa M	Lafayette College	Poster Presenter
Gao, Meng	Harvard University	Attendee
Garofalo, Lauren A	Colorado State	Poster Presenter
Gaston, Cassandra	RSMAS/University of Miami	Poster Presenter
Geddes, Jeffrey A	Boston University	Poster Presenter
Gentner, Drew R	Yale University	Poster Presenter
George, Christian	CNRS-IRCELYON	Poster Presenter
Gligorovski, Sasho	Chinese Academy of Sciences	Poster Presenter
Goldstein, Allen H	University of California, Berkeley	Attendee
Grassian, Vicki H	University of California, San Diego	Poster Presenter
Grieshop, Andrew P	North Carolina State University	Poster Presenter
Griffin, Robert J	Rice University	Poster Presenter
Hall, Samuel R	NCAR	Poster Presenter
Hanson, David R	Augsburg College	Poster Presenter
Heald, Colette L	Massachusetts Institute of Technology	Discussion Leader
Hettiyadura, Anusha P S	The University of Iowa	Poster Presenter
Hildebrandt-Ruiz, Lea	University of Texas at Austin	Poster Presenter
Hinrichs, Ryan Z	Drew University	Poster Presenter
Hopke, Philip K	University of Rochester School of Medicine and Dentistry	Poster Presenter
Horowitz, Hannah M	University of Washington	Poster Presenter
Houle, Frances A	Lawrence Berkeley National Laboratory	Poster Presenter
Huisman, Andrew J	Union College	Poster Presenter
Hung, Hui-Ming	National Taiwan University	Poster Presenter
Hunt, Sherri Weers	US Environmental Protection Agency	Attendee

Isaacman-VanWertz, G	Virginia Tech	Poster Presenter
Jerry, Adrienne D	Brookhaven National Laboratory	Attendee
Jucks, Kenneth W	NASA HQ	Attendee
Kahan, Tara F	Syracuse University	Poster Presenter
Kanji, Zamin A	ETH Zurich	Poster Presenter
Kari, Eetu	University of Eastern Finland	Poster Presenter
Kelleher, Patrick J	Yale University	Poster Presenter
Kenseth, Christopher M	California Institute of Technology	Poster Presenter
Khan, Anwar	University of Bristol	Poster Presenter
Kim, Michelle J	California Institute of Technology	Poster Presenter
Kleindienst, Tadeusz E	U.S. Environmental Protection Agency	Poster Presenter
Kodros, John K	Colorado State University	Poster Presenter
Kopacz, Monika	UCAR/NOAA Climate Program Office	Attendee
Koren, Ilan	Weizmann Institute of Science	Speaker
Kristensen, Louise	University of California San Diego	Poster Presenter
Krnavek, Laura	Army Research Office	Attendee
Kroll, Jesse	MIT	Poster Presenter
Lacey, Forrest	National Center for Atmospheric Research	Poster Presenter
Leckey, John P	NASA Langley	Attendee
Lee, Jeonghoon	Korea University of Technology and Education	Poster Presenter
Lee, Shanhu	University of Alabama in Huntsville	Poster Presenter
Lee, Yunha	Washington State University	Poster Presenter
Leung, Ruby	Pacific Northwest National Laboratory	Speaker
Lewis, Ernie R	Brookhaven National Laboratory	Poster Presenter
Li, Lijie	California Institute of Technology	Poster Presenter
Liu, Pengfei	Harvard University	Poster Presenter
Lohmann, Ulrike	ETH Zurich	Speaker
Mao, Jingqiu	University of Alaska Fairbanks	Poster Presenter
Markovic, Milos	Picarro Inc.	Poster Presenter
Marrero-Ortiz, Wilmarie	Texas A&M University	Poster Presenter
Martin, Randall V	Dalhousie University	Discussion Leader
Mazzoleni, Lynn R	Michigan Technological Unversity	Poster Presenter
McCluskey, Christina S	Colorado State University	Poster Presenter
McDuffie, Erin E	Univeristy of Colorado Boulder/NOAA	Poster Presenter
McMeeking, Gavin R	Handix Scientific	Attendee
McNeill, V. Faye	Columbia University	Poster Presenter
Metcalf, Andrew R	Clemson University	Poster Presenter
Miller, David J	Brown University	Poster Presenter
Millet, Dylan B	University of Minnesota	Poster Presenter
Molinero, Valeria	University of Utah	Speaker
Montoya, Julia	University of California, Irvine	Poster Presenter

Moore, Richard H	NASA Langley Research Center	Poster Presenter
Morrison, Glenn C	Missouri University of Science & Technology	Poster Presenter
Mouchel-Vallon, Camille	NCAR	Poster Presenter
Murphy, Jennifer G	University of Toronto	Discussion Leader
Murray, Lee T	University of Rochester	Poster Presenter
Nah, Theodora	Georgia Institute of Technology	Poster Presenter
Nathanson, Gilbert M	University of Wisconsin-Madison	Speaker
Navea, Juan	Skidmore College	Poster Presenter
Nazaroff, William	University of California, Berkeley	Speaker
Ng, Nga Lee	Georgia Institute of Technology	Poster Presenter
Nicely, Julie M	NASA Goddard Space Flight Center	Poster Presenter
Nizkorodov, Sergey A	University of California, Irvine	Poster Presenter
Offenberg, John H	US EPA	Poster Presenter
Olsiewski, Paula J	Alfred P. Sloan Foundation	Attendee
Onel, Lavinia C	University of Leeds	Poster Presenter
Paley, Miranda A	American Chemical Society	Attendee
Palm, Brett B	University of Colorado at Boulder	Poster Presenter
Petrucci, Giuseppe A	University of Vermont	Attendee
Petters, Sarah S	Colorado State University	Poster Presenter
Praplan, Arnaud P	Finnish Meteorological Institute	Poster Presenter
Prather, Kim	University of California, San Diego	Chair
Pratt, Kerri A	University of Michigan	Poster Presenter
Presto, Albert A	Carnegie Mellon University	Poster Presenter
Pusede, Sally	University of Virginia	Poster Presenter
Raff, Jonathan D	Indiana University	Speaker
Rapf, Rebecca J	University of Colorado Boulder	Poster Presenter
Ravishankara, A.R.	Colorado State University	Speaker
Ridley, David	Massachusetts Institute of Technology	Poster Presenter
Riemer, Nicole	University of Illinois at Urbana-Champaign	Speaker
Riipinen, Ilona	Stockholm University	Speaker
Romer, Paul S	UC Berkeley	Poster Presenter
Rosenfeld, Daniel	Hebrew University of Jerusalem	Speaker
Saha, Provat K	Carnegie Mellon University	Poster Presenter
Sander, Stanley P	Jet Propulsion Laboratory	Poster Presenter
Sanyal, Swarnali	University of Illinois at Urbana Champaign	Poster Presenter
Saunders, Emily	Howard University	Poster Presenter
Schuyler, Travis J	University of Kentucky	Poster Presenter
Schwab, James J	SUNY Albany	Poster Presenter
Schwantes, Rebecca H	National Center for Atmospheric Research	Poster Presenter
Seinfeld, John H	California Institute of Technology	Speaker
Shepson, Paul B	National Science Foundation	Attendee

Shiraiwa, Manabu	University of California, Irvine	Poster Presenter
Shrivastava, Manish K	Pacific Northwest National Laboratory	Poster Presenter
Slade, Jonathan H	Purdue University	Poster Presenter
Smith, Geoffrey D	University of Georgia	Poster Presenter
Steiner, Allison L	University of Michigan	Speaker
Stevens, Philip S	Indiana University	Poster Presenter
Styler, Sarah A	University of Alberta	Poster Presenter
Sullivan, Ryan C	Carnegie Mellon University	Discussion Leader
Sullivan, Ryan C	Cornell University	Poster Presenter
Sun, Kang	Harvard-Smithsonian Center for Astrophysics	Poster Presenter
Taatjes, Craig	Sandia National Laboratories	Speaker
Takahama, Satoshi	Ecole Polytechnique Federalee Lausanne	Poster Presenter
Thornton, Joel A	University of Washington	Poster Presenter
Turner, Alexander J	University of California at Berkeley	Poster Presenter
Turpin, Barbara	University of North Carolina at Chapel Hill	Speaker
Vaida, Veronica	University of Colorado, Boulder	Poster Presenter
Veghte, Daniel	Pacific Northwest National Laboratory	Poster Presenter
Volkamer, Rainer M	University of Colorado	Poster Presenter
Wade, Michael	University of Texas at Austin	Attendee
Wagstrom, Kristina M	University of Connecticut	Poster Presenter
Walters, Wendell	Brown University	Poster Presenter
Wang, Chen	University of Toronto	Poster Presenter
Wang, Yuxuan	University of Houston	Poster Presenter
Washenfelder, Rebecca A	NOAA / University of Colorado	Poster Presenter
Wennberg, Paul O	California Institute of Technology	Poster Presenter
Weschler, Charlie J	Rutgers University	Poster Presenter
Wiedinmyer, Christine	National Center for Atmospheric Research	Attendee
Willis, Megan D	University of Toronto	Poster Presenter
Womack, Caroline C	NOAA Earth System Research Laboratory	Poster Presenter
Worsnop, Douglas R	Aerodyne Research, Inc.	Discussion Leader
Xu, Lu	California Institute of Technology	Poster Presenter
Ylisirnio, Arttu AY	University of Eastern Finland	Poster Presenter
Zegel, William C	Water & Air Research, Inc.	Attendee
Zhang, Renyi	Texas A&M University	Discussion Leader
Zhang, Yue	University of North Carolina at Chapel Hill	Poster Presenter
Zheng, Yiqi	Yale University	Poster Presenter
Zhu, Lei	Wadsworth Center and University at Albany	Poster Presenter
Zondlo, Mark A	Princeton University	Poster Presenter

200 Attendees